

Appl. No. 10/022, 708
Reply to Office Action of February 7, 2006

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A solid-state image sensing device comprising:
a plurality of groups of sensors, each of the group of sensors comprises a ~~pixel~~
line of pixels and a charge-transfer part for transferring signal charge to be read-out
from each pixel of the ~~pixel-line~~ line of pixels; and
driving means, by which in case of read-out of the signal charge is performed at a
different timing between each of said plurality of groups of sensors, wherein during a
read-out period of a first group of sensors, stopping transfer driving of the signal charge
of a second group of sensors is performed by said driving means.
2. (Original) A solid-state image sensing device according to Claim 1,
wherein said groups of sensors are formed on the same chip.
3. (Currently Amended) A solid-state image sensing device according to Claim 1,
wherein a reading period of the signal charge from said ~~pixel-line~~ line of pixels to
said charge-transfer part in said plurality of groups of sensors is different for each group
of sensors.
4. (Previously Presented) A solid-state image sensing device according to Claim
1,

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wherein said driving means comprises transfer driving of at least a final transfer stage of the charge-transfer part in said other group(s) of sensors during the period when the remainder of the transfer driving of the signal charge in said other group(s) of sensors is stopped.

5. (Previously Presented) A solid-state image sensing device according to Claim 1,

wherein said driving means comprises restarting of transfer driving of the signal charge in said other group(s) of sensors in accordance with the output timing of said first group of sensors.

6. (Currently Amended) A method for driving a solid-state image sensing device, the image sensing device comprising a plurality of groups of sensors, each of the group of sensors comprises a ~~pixel-line~~ line of pixels and a charge-transfer part for transferring a signal charge to be read-out from each pixel of the ~~pixel-line~~ line of pixels, the driving method comprises stopping transfer driving of the signal charge of a second group of sensors wherein during read-out period of a first group of sensors in case of read out of a signal charge at a different timing between each of said plurality of groups of sensors is performed.

7. (Original) A method for driving a solid-state image sensing device according to Claim 6,

wherein said groups of sensors are formed on the same chip.

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8. (Currently Amended) A method for driving a solid-state image sensing device according to Claim 6,

wherein a reading period of the signal charge from said ~~pixel-line~~ line of pixels to said charge-transfer part in said plurality of groups of sensors is different for each group of sensors.

9. (Previously Presented) A method for driving a solid-state image sensing device according to Claim 6,

wherein transfer driving of at least a final transfer stage of the charge-transfer part in said other group of sensors is continued during the period when the remainder of the transfer driving of the signal charge in said other group of sensors is stopped.

10. (Previously Presented) A method for driving a solid-state image sensing device according to Claim 6,

wherein restarting of transfer driving of the signal charge in said other group of sensors in accordance with the output timing of said first group of sensors.

11. (Currently Amended) An image scanner comprising a solid-state image sensing device for an image sensor to read a document image, the solid-state image sensing device comprising:

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a plurality of groups of sensors, each of the group of sensors comprises a ~~pixel line~~ line of pixels and a charge-transfer part for transferring signal charge to be read-out from each pixel of the ~~pixel line~~ line of pixels; and

driving means, by which in case of read-out of the signal charge is performed at a different timing between each of said plurality of groups of sensors, wherein during a read-out period of a first group of sensors, stopping transfer driving of the signal charge of a second group of sensors is performed.

12. (Currently Amended) An image scanner comprising a solid-state image sensing device for an image sensor to read a document image, the solid-state image sensing device comprising:

at least a first group of color-sensors and a second group of monochrome-sensors formed on the same chip, each group of sensors comprising a ~~pixel line~~ line of pixels and a charge-transfer part for transferring signal charge to be read from each pixel of the ~~pixel line~~ line of pixels; and

driving means which stops transfer driving of the signal charges of the color-sensors during a reading period of the monochrome-sensors.

Please add the following new claims:

13. (New) A solid-state image sensing device according to Claim 1, wherein said first group of sensors and said second group of sensors comprise photodetectors.

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14. (New) A method for driving a solid-state image sensing device according to Claim 6, wherein said first group of sensors and said second group of sensors comprise photodetectors.

15. (New) An image scanner according to Claim 11, wherein said first group of sensors and said second group of sensors comprise photodetectors.

16. (New) An image scanner according to Claim 16, wherein said first group of color-sensors and said second group of monochrome-sensors comprise photodetectors.